Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	**CP-2020-02-14-46** **Date: 24/12/2019**
Name	:	Improvements CC Roads and Darin at Kogilu Layout in Ward No.05 Byatarayanapura Sub Division.
	:	Executive Engineer KRIDL Bangalore
mer's Reference	:	EE(Project)/Ynk Zone/WO/67/2019-20
Receipt	:	28-11-19
mer ID	:	RMC
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
RMC	M20	26/11/2019	24/12/2019	151.29 X 149.20 X 151.47	22572	**8.652**	540.7	24.0	23.0
RMC	M20	26/11/2019	24/12/2019	151.17 X 150.23 X 150.02	22710	**8.369**	501.7	22.1	
RMC	M20	26/11/2019	24/12/2019	150.63 X 151.40 X 149.30	22806	**8.046**	526.5	23.1	

Asst. Project Director 13/2/2020 Velahanka Zone Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-14-46** **Date: 03/12/2019**

: Improvements CC Roads and Darin at Kogilu Layout in Ward No.05 Byatarayanapura Sub Division.

: Executive Engineer KRIDL Bangalore

Reference : EE(Project)/Ynk Zone/WO/67/2019-20

Receipt : 28-11-19

ID : RMC

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
RMC	M20	26/11/2019	03/12/2019	150.75 X 149.92 X 151.62	22600	**8.113**	429.1	19.0	18.5
RMC	M20	26/11/2019	03/12/2019	150.23 X 151.57 X 149.25	22771	**8.868**	418.2	18.4	
RMC	M20	26/11/2019	03/12/2019	151.48 X 151.71 X 151.00	22982	**8.534**	418.1	18.2	

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ncy	:	Executive Engineer KRIDL Bangalore
mmer's Reference	:	EE(Project)/Ynk Zone/WO/67/2019-20
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mmer ID	:	RMC
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rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
RMC	M20	26/11/2019	24/12/2019	151.90 X 149.99 X 150.47	22783	**8.652**	526.4	23.1	23.2
RMC	M20	26/11/2019	24/12/2019	149.91 X 150.13 X 150.76	22506	**8.369**	512.2	22.8	
RMC	M20	26/11/2019	24/12/2019	151.25 X 150.99 X 150.06	22838	**8.046**	542.6	23.8	

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e of Receipt	:	28-11-19
tomer ID	:	RMC
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
RMC	M20	26/11/2019	03/12/2019	150.43 X 150.13 X 150.60	22584	**8.113**	422.8	18.7	18.5
RMC	M20	26/11/2019	03/12/2019	149.59 X 150.62 X 150.56	22531	**8.868**	406.0	18.0	
RMC	M20	26/11/2019	03/12/2019	151.25 X 151.60 X 151.61	22929	**8.534**	433.2	18.9	

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of Receipt	:	28-11-19
mer ID	:	RMC
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	24/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
RMC	M20	26/11/2019	24/12/2019	150.93 X 149.53 X 150.08	22568	**8.652**	526.3	23.3	23.3
RMC	M20	26/11/2019	24/12/2019	149.02 X 150.85 X 151.21	22480	**8.369**	513.5	22.8	
RMC	M20	26/11/2019	24/12/2019	149.36 X 149.07 X 149.80	22265	**8.046**	531.1	23.9	

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: **CP-2020-02-14-46** **Date: 03/12/2019**

Name : Improvements CC Roads and Darin at Kogilu Layout in Ward No.05 Byatarayanapura Sub Division.

: Executive Engineer KRIDL Bangalore

's Reference : EE(Project)/Ynk Zone/WO/67/2019-20

Receipt : 28-11-19

ID : RMC

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

test : 03/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
RMC	M20	26/11/2019	03/12/2019	149.56 X 150.11 X 149.31	22451	**8.113**	409.0	18.2	18.5
RMC	M20	26/11/2019	03/12/2019	150.34 X 150.52 X 150.93	22628	**8.868**	413.6	18.3	
RMC	M20	26/11/2019	03/12/2019	150.92 X 150.18 X 149.45	22665	**8.534**	427.6	18.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

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ID	:	**CP-2020-02-14-46**
ject Name	:	Improvements CC Roads and Darin at Kogilu Layout in Ward No.05 Byatarayanapura Sub Division.
ncy	:	Executive Engineer KRIDL Bangalore
mmer's Reference	:	EE(Project)/Ynk Zone/WO/67/2019-20
e of Receipt	:	28-11-19
mmer ID	:	RMC
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	24/12/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	26/11/2019	24/12/2019	150.62 X 151.18 X 150.00	22770	8.652	527.6	23.2	23.0
2	RMC	M20	26/11/2019	24/12/2019	150.85 X 151.69 X 151.96	22883	8.369	505.3	22.1	
3	RMC	M20	26/11/2019	24/12/2019	151.64 X 149.20 X 149.27	22625	8.046	536.8	23.7	

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TEST RESULTS OF GRADATION FOR WMM

ID	:	CP-RW-2020-02-14-46 **Date: 27-11-19**
ject Name	:	Improvements CC Roads and Darin at Kogilu Layout in Ward No.05 Byatarayanapura Sub Division.
ncy	:	Executive Engineer KRIDL Bangalore
omer Reference	:	EE(Project)/Ynk Zone/WO/67/2019-20
e of Receipt	:	25-11-19
e of Mix	:	WMM (Wet Mix Macadam)
e of test	:	25-11-19
n Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : **CP-RW-2020-02-14-46** **Date: 27-11-19**

Project Name : Improvements CC Roads and Darin at Kogilu Layout in Ward No.05 Byatarayanapura Sub Division.

Agency : Executive Engineer KRIDL Bangalore

Customer Reference : EE(Project)/Ynk Zone/WO/67/2019-20

Date of Receipt : 25-11-19

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 25-11-19

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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TERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

ID	:	CP-RW-2020-02-14-46	Date: 27-11-19
ect Name	:	Improvements CC Roads and Darin at Kogilu Layout in Ward - No.05 Byatarayanapura Sub Division.	
ncy	:	Executive Engineer KRIDL Bangalore	
mer Reference	:	EE(Project)/Ynk Zone/WO/67/2019-20	
f Receipt	:	25-11-19	
f Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
f test	:	25-11-19	

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
med Flakiness and Elongation Index for WMM	25.3%	

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